



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	Trent 768	BYPASS RATIO:	5.2
UNIQUE ID NUMBER:	3RR029	PRESSURE RATIO (π_{00}):	34.0
COMBUSTOR:	Improved traverse		
ENGINE TYPE:	MTF	RATED THRUST (F_{00}) (kN):	300.3

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	4.2	36.5	60.5	2.6
AS % OF ORIGINAL LIMIT	21.4	30.9	56.0	14.8
AS % OF CAEP/2 LIMIT (NO _x)			70.0	
AS % OF CAEP/4 LIMIT (NO _x)			80.7	
AS % OF CAEP/6 LIMIT (NO _x)			90.4	
AS % OF CAEP/8 LIMIT (NO _x)			104.1	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.970	0.00	0.18	31.25	1.9
CLIMB OUT	85	2.2	2.430	0.01	0.15	24.66	2.0
APPROACH	30	4.0	0.810	0.01	1.02	10.01	0.7
IDLE	7	26.0	0.270	1.89	20.22	4.52	0.2
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1061	801	8786	15658	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				2.7	29.7	52.2	2.0
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)				2.29-3.13	27.6-31.4	51-53.1	1.6-2.5

ACCESSORY LOADS

POWER EXTRACTION	0	(kW)	AT	-	POWER SETTINGS
STAGE BLEED	0	(% CORE FLOW)	AT	-	POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	100.2
TEMPERATURE (K)	287
ABS HUMIDITY (kg/kg)	0.0053-0.0089

FUEL

SPEC	AVTUR
H/C	1.95
AROM (%)	16

MANUFACTURER: Rolls-Royce plc
 TEST ORGANIZATION: Rolls-Royce plc
 TEST LOCATION: SINFIN-Derby
 TEST DATES: 01/09/1994

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
x	2.3.2 d) (CAEP/6)
	2.3.2 e) (CAEP/8)

REMARKS

- Data from certification report DNS 19234.
- Improved traverse combustor.

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)